

Title (en)  
Sensor module

Title (de)  
Sensormodul

Title (fr)  
Module de capteur

Publication  
**EP 2653975 B1 20151216 (DE)**

Application  
**EP 13001431 A 20130320**

Priority  
DE 102012007417 A 20120416

Abstract (en)  
[origin: EP2653975A2] The module (1) has a signal processing device (3) e.g. microcontroller (8), attached to an electrical interface (4). The signal processing device reversibly provides a sensor signal selectively as a positive binary voltage signal or a negative binary voltage signal to interface contacts (18, 19) of the interface and/or reversibly provides the sensor signal as an analog voltage signal or analog current signal to the interface contacts. The signal processing device is formed for supplementary provision of the sensor signal in form of a digital voltage signal to the interface contacts.

IPC 8 full level  
**G06F 13/40** (2006.01); **G01D 21/00** (2006.01)

CPC (source: EP)  
**G01D 21/00** (2013.01); **G06F 13/4068** (2013.01)

Citation (opposition)  
Opponent : Bürkert Werke GmbH  
• DE 102006054421 A1 20080521 - ENDRESS & HAUSER GMBH & CO KG [DE]  
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• "HMT7742 GENIE IO-Link DEVICE PHY", HMT MICROELECTRONIC AG, November 2010 (2010-11-01), pages 1 - 27, XP055307954  
Opponent : SICK AG.  
• DE 102009015016 A1 20100930 - BOSCH GMBH ROBERT [DE]  
• DE 10350331 A1 20050609 - KNORR BREMSE SYSTEME [DE]  
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• DE 4434180 A1 19960328 - TEVES GMBH ALFRED [DE]  
• DE 10159607 B4 20101118 - SIEMENS AG [DE]  
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• WO 2012023022 A2 20120223 - INVENSYS SYS INC [US], et al  
• DE 10231950 A1 20030213 - GE FANUC AUTOMATION INC [US]  
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• EP 1785884 A2 20070516 - ATMEL GERMANY GMBH [DE]  
• "Foxboro I/A Series Hardware PSS 21H-2Z47 B4", INVENSYS SYSTEMS, INC., 2011, Plano, TX, USA, pages 1 - 16, XP055307950  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2653975 A2 20131023; EP 2653975 A3 20140611; EP 2653975 B1 20151216; EP 2653975 B2 20190522**; DE 102012007417 A1 20131017; ES 2561413 T3 20160226

DOCDB simple family (application)  
**EP 13001431 A 20130320**; DE 102012007417 A 20120416; ES 13001431 T 20130320